

**PRIMORDIAL GERM CELL-BASED GERM LINE PRODUCTION OF
BIRDS**

ABSTRACT

5 The invention features an isolated avian gonadal cell, e.g., an ovarian cell or a
testes cell, containing a heterologous nucleic acid as well as a method of introducing a
nucleic acid molecule into the genome of an avian species, by contacting a population of
isolated gonadal cells derived from a chick embryo with the nucleic acid molecule to
yield transfected gonadal cells, and transferring the transfected gonadal cells to a
10 fertilized avian egg

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